2011-07-21 Thursday Morning Notes

Thursday, July 21, 2011

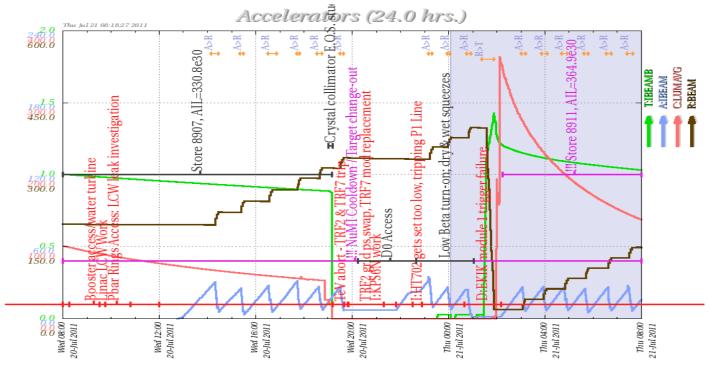
Access

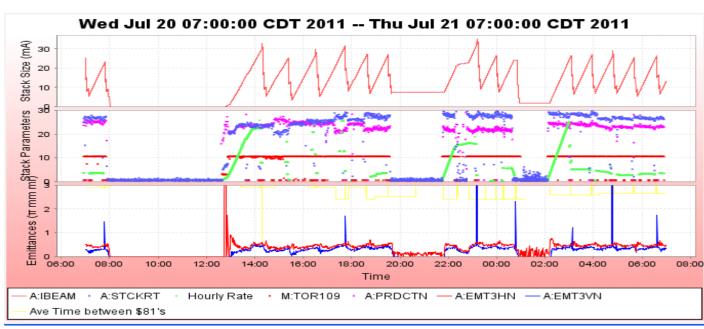
- LCW Leaks. Leak started the morning of July 10th and was a constant 100gal/day for a long time. Over the last two days, the leak rate increased to 220 gal/day. Accessed to repair LCW leaks. Repairs were successful as we did not makeup any LCW overnight.
 - **A5S12**: Split orange hose. This is a majority of our current LCW Leak. Water experts will repair this today.
 - IQ31: Black hose in back is dripping fairly fast. Water experts will repair this today.
 - **D5Q6**: This is a very slow weeper that will require a braze.
 - **DRF1-7**: There is a very small leak on a manual valve on the ceiling.
 - A2Q13: A fairly fast dripper on a black hose on an LCW tee at the top of the magnet. Water experts will repair this today.
 - **D1B18**: A very tiny dripper on the bottom black hose.
 - **D1Q14**: There are two leaks on this magnet. One is an orange hose on the front that water experts will fix, and the other is on the copper block where the LCW lines feed in and will require TD to repair.
 - **D4B18**: A small dripper on the bottom black hose. Water experts will repair.
 - **D:QS315**: The top orange hose on the shunt is leaking. Water experts will repair today.
 - EQ23 (Transport Enclosure): Has an internal water leak.
- PMAG collimator strainer flushed
- Target blower mainenance done
- A lower noise +5V power supply has been installed for the Accumulator Low Level RF chassis. See A:R1LP05. It has been adjusted to the same voltage as the previous supply.
- A:V504 swapped out with a spare, but spare readback is noisy with a -2A offset. Had to adjust to minimize orbit oscillation. The trim stabilized after running a few hours.

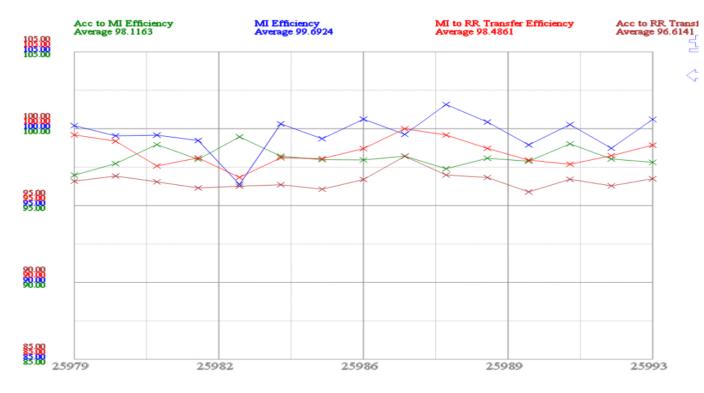
Numbers

- Stacking
 - Pbars stacked: 395.55 E10Time stacking: 16.83 Hr
 - Average stacking rate: 23.50 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 22395
 - o Number of pulses with beam: 19922
 - Fraction of up pulses was: 88.96%
- The uptime's effect on the stacking numbers
 - o Corrected time stacking: 14.97 Hr
 - o Possible average stacking rate: 26.42 E10/Hr
 - o Could have stacked: 444.65 E10/Hr
- Recycler Transfers
 - o Pbars sent to the Recycler: 375.58 E10
 - Number of transfers: 47
 - Number of transfer sets: 16
 - Average Number of transfer per set: 2.94
 - o Time taken to shoot including reverse proton tuneup: 00.16 Hr
 - Transfer efficiency: 96.64%
- Other Info
 - Average POT: 8.41 E12
 - Average production: 23.60 pbars/E6 protons









В	С	D	E	F	G	Н		J	K	N	0	Р	Q	R	S	T	U
Column 1 Number _0_Pbar Transfer Shot #	Column 4 Number_3_Transfer Ti		sampled on \$91 (A:BEA	22 Number _21_A:I BEAMB	(mA)	23 Number _22_R:B EAMS (R:BEA ME0[0]) pre afer	24 Number	Stashed	Ace to RR Eff	Acc to MI Eff	Ace to MI2 Eff	Acc to MI * Acc to MI2 Efficiency	Tran sfers	Sets	5 Number_ 4_Acc	6 Number _5_Acc Yertical Emittan	Column 8 Number _7_Acc Longitu dinal Emittan
	Totals =>				357.43			345.61	96.69%	98.18%	97.96%	96.17%	45	15	4.4447	3.1873	2.0356
	Daily Average =>				357.43			345.61					45	15			
25993	Thursday, July 21, 2011	7:29	25.92	6.31	22.30	126.90	148.30	21.58	96.78%	98.01%	99.13%	97.16%	3	1	4.823	3,383	2.046
25992	Thursday, July 21, 2011	6:37	26.60	6.59	22.71	105.44	127.13	21.89	96.39%	97.53%	96.91%	94.52%	3	1	4.474	3,619	2.039
25991	Thursday, July 21, 2011	5:41	25.63	5.28	22.33	84.12	105.65	21.64	96.91%	98.86%	98.88%	97.75%	3	1	4.219	2.858	2.043
25990	Thursday, July 21, 2011	4:49	27.11	6.71	23.11	62.31	84.32	22.19	96.00%	98.03%	97.35%	95.44%	3	1	4.632	3,539	2.053
25989	Thursday, July 21, 2011	3:56	27.33	6.83	22.91	40.32	62.46	22.24	97.05%	98.11%	98.50%	96.65%	3	1	4.875	3,432	2.05
25988	Thursday, July 21, 2011	3:04	26.49	6.34	22.08	19.13	40.44	21.41	96.96%	97.49%	98.51%	96.04%	3	1	4.428	2.904	2.083
25987	Thursday, July 21, 2011	0:49	24.38	1.86	22.54	376.89	398.65	22.12	98.15%	98.67%	98.55%	97.24%	3	1	1.846	0.147	1.976
25986	Wednesday, July 20, 2011	23:58	26.49	7.52	21.65	357.35	377.92	20.94	96.73%	98.14%	98.46%	96.62%	3	1	4.725	3,502	2.091
25985	Wednesday, July 20, 2011	23:13	33.56	9.21	27.03	332.45	358.10	25.96	96.05%	97.59%	97.03%	94.70%	3	1	5,058	4.051	2.067
25984	Wednesday, July 20, 2011	19:31	27.44	6.80	23.21	313.57	335.62	22.42	96.58%	98.25%	98.10%	96.38%	3	1	5,046	3,908	2.068
25983	Wednesday, July 20, 2011	18:38	27.26	6.79	23.20	292.47	314.53	22.38	96.45%	98.85%	96.62%	95.50%	3	1	5.001	3,754	2.137
25982	Wednesday, July 20, 2011	17:44	31.89	8.05	26.52	268.14	293.35	25.52	96.24%	98.21%	97.58%	95.83%	3	1	4.761	3.897	2.062
25981	Wednesday, July 20, 2011	16:33	28.24	5.25	25.51	244.46	268.89	24.67	96.69%	99.40%	98.62%	98.03%	3	1	4,296	3,289	1.964
25980	Wednesday, July 20, 2011	15:24	25.58	3.49	24.32	221.82	245.13	23.60	97.04%	98.43%	97.90%	96.36%	3	1	3,926	2.204	1.902
25979	Wednesday, July 20, 2011	14:20	30.97	5.26	28.01	195.51	222.34	27.06	96.61%	97.19%	97.63%	94.89%	3	1	4.56	3.322	1.953

Pbar 95 LCW Makeup 1200 1000

Pbar 95 LCW Leak. Rate was linear at 100gal/day for a number of days, but started getting worse. Tuesday we made up 200 gallons. Access to repair leaks









